

IN THE CLAIMS:

Please amend claims 41-61 and add new claims 62-86 as follows:

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62. (New) A method of producing a New Guinea impatiens plant having a flower with at least one petal which exhibits a striped pattern, the method comprising the steps of: treating a New Guinea impatiens plant with a chemical mutagen and selecting a shoot from said plant containing a flower having at least one petal which exhibits a striped pattern.

63. (New) The method of claim 62 wherein the New Guinea impatiens plant is a cutting or a whole plant.

64. (New) The method of claim 62 wherein the chemical mutagen is ethyl methane sulphonate, methyl methane sulphonate, diethyl sulphate, nitrosoguanidine, ethylnitrosourea or methylnitrosourea.

65. (New) A New Guinea impatiens plant comprising a flower having at least one petal which exhibits a striped pattern produced by the method of claim 62.

66. (New) Pollen of the plant of claim 65.

67. (New) An ovule of the plant of claim 65.

68. (New) A tissue culture comprising regenerable cells of the plant of claim 65.

69. (New) A cutting of the plant of claim 65.

70. (New) A method for altering the color of the petals of a flower of a New Guinea Impatiens plant, the method comprising the steps of: treating a New Guinea impatiens plant with electromagnetic radiation or ion beams and selecting a shoot from said plant containing a flower having at least one petal exhibiting an altered color.

71. (New) The method of claim 70 wherein the New Guinea impatiens plant is a cutting or a whole plant.

72. (New) The method of claim 70 wherein the New Guinea impatiens plant is irradiated with gamma rays, x-rays or ultraviolet rays.

73. (New) The method of claim 70 wherein the New Guinea impatiens plant is irradiated with from about 1.5 to about 3.5 krads of electromagnetic radiation or ion beams,

74. (New) A New Guinea impatiens plant comprising a flower having at least one petal which exhibits an altered color produced by the method of claim 70.

75. (New) The New Guinea impatiens plant of claim 74, wherein the plant has a pedigree which includes the plant 2582.

76. (New) Pollen of the plant of claim 74.

77. (New) An ovule of the plant of claim 74.

78. (New) A tissue culture comprising regenerable cells of the plant of claim 74.

79. (New) A cutting of the plant of claim 74.

80. (New) A method for altering the color of the petals of a flower of a New Guinea impatiens plant, the method comprising the steps of: treating a New Guinea impatiens plant with a chemical mutagen and selecting a shoot from said plant containing a flower having at least one petal exhibiting an altered color.

81. (New) The method of claim 80 wherein the chemical mutagen is ethyl methane sulphonate, methyl methane sulphonate, diethyl sulphate, nitrosoguanidine, ethylnitrosourea or methylnitrosourea.

82. (New) A New Guinea impatiens plant comprising a flower having at least one petal which exhibits an altered color produced by the method of claim 80.

83. (New) Pollen of the plant of claim 82.

84. (New) An ovule of the plant of claim 82.

85. (New) A tissue culture comprising regenerable cells of the plant of claim 82.

86. (New) A cutting of the plant of claim 82.